



Author Index

- Ahn, H.S., K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki, Growth of thick AlGaIn by mixed-source hydride vapor phase epitaxy 243 (2005) 178
- Akdim, B., see Duan, X. 243 (2005) 11
- Aleksandrov, A., see Chen, H. 243 (2005) 166
- Andersen, K.N., W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner, Annealing and deposition effects of the chemical composition of silicon-rich nitride 243 (2005) 401
- Ardelean, H., S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari, Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies 243 (2005) 304
- Arefi-Khonsari, F., see Ardelean, H. 243 (2005) 304
- Aseev, A.L., see Sheglov, D.V. 243 (2005) 138
- Aswal, D.K., see Debnath, A.K. 243 (2005) 220
- Attard, D.J., see Mitchell, D.R.G. 243 (2005) 265
- Balat-Pichelin, M., see Paulmier, T. 243 (2005) 376
- Barbé, C.J., see Mitchell, D.R.G. 243 (2005) 265
- Barratt, D.S., see Hashim, A.A. 243 (2005) 421
- Bartlett, J.R., see Mitchell, D.R.G. 243 (2005) 265
- Bassir, M., see Huang, L. 243 (2005) 360
- Baumgärtner, H., see Andersen, K.N. 243 (2005) 401
- Bautista, O., see Campos, I. 243 (2005) 429
- Bell, G., see Perkins, M.C. 243 (2005) 158
- Bensebaa, F., P. L'Ecuyer, K. Faid, Ch. Py, T.J. Tague and R.S. Jackson, Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers 243 (2005) 238
- Böhme, R., see Zimmer, K. 243 (2005) 415
- Borowiec, A., H.F. Tiedje and H.K. Haugen, Wavelength dependence of the single pulse femtosecond laser ablation threshold of indium phosphide in the 400–2050 nm range 243 (2005) 129
- Brack, N., see Kappen, P. 243 (2005) 287
- Briggs, D., see Perkins, M.C. 243 (2005) 158
- Brinzari, V., G. Korotcenkov and V. Matolin, Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method 243 (2005) 335
- Bulakh, B., see Korsunskaya, N. 243 (2005) 30
- Campos, I., O. Bautista, G. Ramírez, M. Islas, J. De La Parra and L. Zúñiga, Effect of boron paste thickness on the growth kinetics of Fe₂B boride layers during the boriding process 243 (2005) 429
- Castillo, S., see Chen, L.F. 243 (2005) 319
- Chan, K.C., see Hu, F. 243 (2005) 251
- Chang, C.-H., B.-S. Chiou, K.-S. Chen and J.-C. Ho, Characterization and conductive coating of phosphors for improved brightness 243 (2005) 55
- Cháb, V., see Matolin, V. 243 (2005) 106
- Chen, C.-C. and F.C.-N. Hong, Interfacial studies for improving the adhesion of diamond-like carbon films on steel 243 (2005) 296
- Chen, G., see Feng, W. 243 (2005) 204
- Chen, H., Y. Chen, A. Aleksandrov, J. Dong, M. Liu and T.M. Orlando, Charging effects on electron-stimulated desorption of cations from gadolinia-doped ceria surfaces 243 (2005) 166
- Chen, K.-S., see Chang, C.-H. 243 (2005) 55
- Chen, L.F., G. González, J.A. Wang, L.E. Noraña, A. Toledo, S. Castillo and M. Morán-Pineda, Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen 243 (2005) 319
- Chen, P., see Zhu, M. 243 (2005) 89
- Chen, W.J., see Liu, C.M. 243 (2005) 259
- Chen, Y., see Chen, H. 243 (2005) 166
- Chico, B., L. Martinez and F.J. Pérez, Nitrogen ion implantation on stainless steel: AFM study of surface modification 243 (2005) 409
- Chiou, B.-S., see Chang, C.-H. 243 (2005) 55
- Cho, C.R., see Ahn, H.S. 243 (2005) 178
- Cho, H.K., see Ahn, H.S. 243 (2005) 178
- Choi, S.-H. and H.G. Park, Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation 243 (2005) 76
- Chu, P.K., see Zhu, M. 243 (2005) 89
- Chushkin, Y., M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino, Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers 243 (2005) 62
- Cunnane, V., see Sarac, A.S. 243 (2005) 183

- D'Anna, E., see Chushkin, Y. 243 (2005) 62
- Davies, M.C., see Perkins, M.C. 243 (2005) 158
- De La Parra, J., see Campos, I. 243 (2005) 429
- Debnath, A.K., N. Joshi, K.P. Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta and J.V. Yakhmi, Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy 243 (2005) 220
- Debnath, R.K. and A.G. Fitzgerald, Electron beam induced surface modification of amorphous Sb_2S_3 chalcogenide films 243 (2005) 148
- Debnath, R.K., N. Nusbar and A.G. Fitzgerald, Electron beam induced chemical modification of amorphous chalcogenide-metal bilayers and its application 243 (2005) 228
- Depagne, C., see Mitchell, D.R.G. 243 (2005) 265
- Ding, S., see Wang, Q.-Q. 243 (2005) 329
- Dong, J., see Chen, H. 243 (2005) 166
- Dong, N., see Guo, H. 243 (2005) 245
- Donoval, D., see Srnanek, R. 243 (2005) 96
- Du, G., see Ma, Y. 243 (2005) 24
- Duan, X., B. Akdim and R. Pachter, A theoretical study of Cs adsorption at tips of single-wall carbon nanotubes: field emission properties 243 (2005) 11
- Dudr, V., see Matolín, V. 243 (2005) 106
- Engelsen, D., see Gao, Y. 243 (2005) 19
- Fabík, S., see Matolín, V. 243 (2005) 106
- Faid, K., see Bensebaa, F. 243 (2005) 238
- Fan, R., see Zhang, D. 243 (2005) 232
- Fan, S., see Zhang, D. 243 (2005) 232
- Fan, Z., see Zhang, D. 243 (2005) 232
- Feng, K.A., see Yuan, H.T. 243 (2005) 36
- Feng, K.C., see Wang, Y.X. 243 (2005) 394
- Feng, K.C., see Yuan, H.T. 243 (2005) 36
- Feng, W., D. Yan, J. He, G. Zhang, G. Chen, W. Gu and S. Yang, Microhardness and toughness of the TiN coating prepared by reactive plasma spraying 243 (2005) 204
- Feng, W., see Wang, Y.X. 243 (2005) 394
- Fernandes, J.R.A., see Mardare, C.C. 243 (2005) 113
- Finnie, K.S., see Mitchell, D.R.G. 243 (2005) 265
- Fisher, E.P., see Siriwardane, R.V. 243 (2005) 40
- Fitzgerald, A.G., see Debnath, R.K. 243 (2005) 148
- Fitzgerald, A.G., see Debnath, R.K. 243 (2005) 228
- Florovic, M., see Srnanek, R. 243 (2005) 96
- Frauenheim, T., see Rauls, E. 243 (2005) 345
- Friedmann, A., see Perkins, M.C. 243 (2005) 158
- Gao, W., see Zhang, D. 243 (2005) 232
- Gao, Y., X. Zhang, W. Lei, M. Liu, Y. Zhang and D. Engelsen, Ion bombardment in a normal-gate FED 243 (2005) 19
- Gerstmann, U., see Rauls, E. 243 (2005) 345
- Geurts, J., see Srnanek, R. 243 (2005) 96
- González, G., see Chen, L.F. 243 (2005) 319
- Gu, W., see Feng, W. 243 (2005) 204
- Guo, H., M. Yin, N. Dong, M. Xu, L. Lou and W. Zhang, Effect of heat-treatment temperature on the luminescent properties of $\text{Lu}_2\text{O}_3\text{:Eu}$ film prepared by Pechini sol-gel method 243 (2005) 245
- Gupta, S.K., see Debnath, A.K. 243 (2005) 220
- Hale, P.S., see Kappen, P. 243 (2005) 287
- Hamagami, T., see Tsuji, T. 243 (2005) 214
- Hart, C., see Perkins, M.C. 243 (2005) 158
- Hashim, A.A., A.K. Ray, A.K. Hassan and D.S. Barratt, The study of the effect of Ba coverage through the accelerations lifetime of activated BaO/SrO cathodes 243 (2005) 421
- Hassan, A.K., see Hashim, A.A. 243 (2005) 421
- Haugen, H.K., see Borowiec, A. 243 (2005) 129
- He, C.J., see Yuan, H.T. 243 (2005) 36
- He, J., see Feng, W. 243 (2005) 204
- He, P.M., see Wang, X.Q. 243 (2005) 151
- Henry, J., see Sarac, A.S. 243 (2005) 183
- Ho, J.-C., see Chang, C.-H. 243 (2005) 55
- Honda, Y., see Ahn, H.S. 243 (2005) 178
- Hong, F.C.-N., see Chen, C.-C. 243 (2005) 296
- Hou, Y.-B., see Wang, Y.-M. 243 (2005) 355
- Hsieh, S.H., see Liu, C.M. 243 (2005) 259
- Hu, F. and K.C. Chan, Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform 243 (2005) 251
- Huang, L., M. Bassir and S. Kaliaguine, Reducibility of Co^{3+} in perovskite-type LaCoO_3 and promotion of copper on the reduction of Co^{3+} in perovskite-type oxides 243 (2005) 360
- Hun, J.-B., see Wang, Q.-Q. 243 (2005) 329
- Ignatovich, K.V., see Saranin, A.A. 243 (2005) 199
- Irmer, G., see Srnanek, R. 243 (2005) 96
- Islas, M., see Campos, I. 243 (2005) 429
- Ivanisevic, A., see Kinsella, J.M. 243 (2005) 7
- Jackson, R.S., see Bensebaa, F. 243 (2005) 238
- Jergel, M., see Chushkin, Y. 243 (2005) 62
- Jin, H.X., see Wang, X.Q. 243 (2005) 151
- Joanni, E., see Mardare, C.C. 243 (2005) 113
- Joshi, N., see Debnath, A.K. 243 (2005) 220
- Jumayev, B., see Korsunskaya, N. 243 (2005) 30
- Kaliaguine, S., see Huang, L. 243 (2005) 360
- Kappen, P., N. Brack, P.S. Hale, W. Prissanaroon, E. Welter and P.J. Pigram, Radiation and storage-induced ageing of polypyrrole doped with dodecylbenzene sulfonic acid 243 (2005) 287
- Kasyanova, T.V., see Saranin, A.A. 243 (2005) 199
- Kawamura, T., see Tsuji, T. 243 (2005) 214
- Khomenkova, L., see Korsunskaya, N. 243 (2005) 30
- Kim, K.H., see Ahn, H.S. 243 (2005) 178
- Kim, S.W., see Ahn, H.S. 243 (2005) 178
- Kim, T.W., see No, Y.S. 243 (2005) 143
- Kinsella, J.M. and A. Ivanisevic, Chromophore binding to in vitro engineered bio-mimetic surfaces 243 (2005) 7

- Korotcenkov, G., see Brinzari, V. 243 (2005) 335
- Korsunskaya, N., B. Bulakh, B. Jumayev, L. Khomenkova, V. Yukhymchuk and T. Torchynska, Raman scattering characterization of macro- and nanoporous silicon 243 (2005) 30
- Kotlyar, V.G., see Saranin, A.A. 243 (2005) 199
- Kubo, W. and T. Tatsuma, Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography 243 (2005) 125
- Kuwasawa, Y., see Chushkin, Y. 243 (2005) 62
- Latyshev, A.V., see Sheglov, D.V. 243 (2005) 138
- Laurens, P., see Ardelean, H. 243 (2005) 304
- Le Quéau, D., see Paulmier, T. 243 (2005) 376
- L'Ecuier, P., see Bensebaa, F. 243 (2005) 238
- Lee, H.J., see Ahn, H.S. 243 (2005) 178
- Lee, H.S., see No, Y.S. 243 (2005) 143
- Lei, W., see Gao, Y. 243 (2005) 19
- Lentze, M., see Srnanek, R. 243 (2005) 96
- Li, D.H., see Yuan, H.T. 243 (2005) 36
- Li, J., N. Yuan and J. Xie, Annealing characteristics of the vanadium oxide films prepared by modified ion beam enhanced deposition 243 (2005) 437
- Li, W., see Ma, Y. 243 (2005) 24
- Li, W.Q., see Wang, Y.X. 243 (2005) 394
- Li, Y.A., see Wang, Y.X. 243 (2005) 394
- Li, Z.H., see Wang, X.Q. 243 (2005) 151
- Lin, C., see Zhu, M. 243 (2005) 89
- Liu, C.M., W.L. Liu, S.H. Hsieh, T.K. Tsai and W.J. Chen, Interfacial reactions of electrodeless nickel thin films on silicon 243 (2005) 259
- Liu, D., see Ma, Y. 243 (2005) 24
- Liu, L.H., see Wang, Y.X. 243 (2005) 394
- Liu, M., see Chen, H. 243 (2005) 166
- Liu, M., see Gao, Y. 243 (2005) 19
- Liu, W., see Zhu, M. 243 (2005) 89
- Liu, W.L., see Liu, C.M. 243 (2005) 259
- Lou, L., see Guo, H. 243 (2005) 245
- Luby, Š., see Chushkin, Y. 243 (2005) 62
- Luches, A., see Chushkin, Y. 243 (2005) 62
- Ma, Y., G. Du, X. Wang, W. Li, J. Yin, D. Qiu, B. Song, X. Zhang, Y. Zhang and D. Liu, Growth and characteristics of ZnO thin film on CaF₂ (11-21) substrate by metalorganic vapor phase epitaxy 243 (2005) 24
- Mašek, K., see Matolín, V. 243 (2005) 106
- Majková, E., see Chushkin, Y. 243 (2005) 62
- Marcus, P., see Ardelean, H. 243 (2005) 304
- Mardare, A.I., see Mardare, C.C. 243 (2005) 113
- Mardare, C.C., E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. de Sá and P.B. Tavares, Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering 243 (2005) 113
- Martinez, L., see Chico, B. 243 (2005) 409
- Martino, M., see Chushkin, Y. 243 (2005) 62
- Matolín, V., see Brinzari, V. 243 (2005) 335
- Matolín, V., V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská, Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study 243 (2005) 106
- Matolínová, I., see Matolín, V. 243 (2005) 106
- McMonagle, J.B., see Sarac, A.S. 243 (2005) 183
- Mitchell, D.R.G., D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett, TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition 243 (2005) 265
- Morán-Pineda, M., see Chen, L.F. 243 (2005) 319
- Muthe, K.P., see Debnath, A.K. 243 (2005) 220
- Narita, T., see Ahn, H.S. 243 (2005) 178
- Nie, Y.X., see Yuan, H.T. 243 (2005) 36
- No, Y.S., T.W. Kim, H.S. Lee and H.L. Park, Microstructural and interband transition properties in CdTe quantum dots grown on ZnTe buffer layers by using atomic layer epitaxy 243 (2005) 143
- Noreña, L.E., see Chen, L.F. 243 (2005) 319
- Novotny, I., see Srnanek, R. 243 (2005) 96
- Nusbar, N., see Debnath, R.K. 243 (2005) 228
- Okayasu, S., see Chushkin, Y. 243 (2005) 62
- Orlando, T.M., see Chen, H. 243 (2005) 166
- Ožvold, M., see Chushkin, Y. 243 (2005) 62
- Pachter, R., see Duan, X. 243 (2005) 11
- Park, H.G., see Choi, S.-H. 243 (2005) 76
- Park, H.L., see No, Y.S. 243 (2005) 143
- Park, W.J., see Saranin, A.A. 243 (2005) 199
- Park, Y.S., see Saranin, A.A. 243 (2005) 199
- Paulmier, T., M. Balat-Pichelin and D. Le Quéau, Structural modifications of carbon-carbon composites under high temperature and ion irradiation 243 (2005) 376
- Perkins, M.C., C.J. Roberts, D. Briggs, M.C. Davies, A. Friedmann, C. Hart and G. Bell, Macro and microthermal analysis of plant wax/surfactant interactions: plasticizing effects of two alcohol ethoxylated surfactants on an isolated cuticular wax and leaf model 243 (2005) 158
- Petit, S., see Ardelean, H. 243 (2005) 304
- Pigram, P.J., see Kappen, P. 243 (2005) 287
- Poston Jr., J.A., see Siriwardane, R.V. 243 (2005) 40
- Pérez, F.J., see Chico, B. 243 (2005) 409
- Prince, K.C., see Matolín, V. 243 (2005) 106
- Prissanaroon, W., see Kappen, P. 243 (2005) 287
- Py, C., see Bensebaa, F. 243 (2005) 238
- Qiu, D., see Ma, Y. 243 (2005) 24
- Radziewicz, D., see Srnanek, R. 243 (2005) 96
- Ramírez, G., see Campos, I. 243 (2005) 429

- Rauls, E., U. Gerstmann and T. Frauenheim, Influence of the growth-surface on the incorporation of phosphorus in SiC 243 (2005) 345
- Ray, A.K., see Hashim, A.A. 243 (2005) 421
- Roberts, C.J., see Perkins, M.C. 243 (2005) 158
- Sá, C.P.M., see Mardare, C.C. 243 (2005) 113
- Sarac, A.S., M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle, Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre. AFM, XPS, and Raman Spectroscopy 243 (2005) 183
- Saranin, A.A., A.V. Zotov, V.G. Kotlyar, O.A. Utas, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park, Formation of Si nanodot arrays on the oxidized Si(100) surface 243 (2005) 199
- Sawaki, N., see Ahn, H.S. 243 (2005) 178
- Sciana, B., see Srnanek, R. 243 (2005) 96
- Serantoni, M., see Sarac, A.S. 243 (2005) 183
- Shao, J., see Zhang, D. 243 (2005) 232
- Sharma, A.K. and R.K. Thareja, Plume dynamics of laser-produced aluminum plasma in ambient nitrogen 243 (2005) 68
- Sheglov, D.V., A.V. Latyshev and A.L. Aseev, The deepness enhancing of an AFM-tip induced surface nanomodification 243 (2005) 138
- Shi, X., see Zhu, M. 243 (2005) 89
- Siriwardane, R.V., J.A. Poston Jr. and E.P. Fisher, Interaction of hydrogen sulfide with $Zr_{0.92}Y_{0.08}O_{2-8}/40\%$ Ni cermet 243 (2005) 40
- Skála, T., see Matolín, V. 243 (2005) 106
- Song, B., see Ma, Y. 243 (2005) 24
- Srnanek, R., G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziewicz, M. Tlaczala, M. Florovic and I. Novotny, Micro-Raman study of photoexcited plasma in GaAs bevelled structures 243 (2005) 96
- Stimpel-Lindner, T., see Andersen, K.N. 243 (2005) 401
- Sulima, T., see Andersen, K.N. 243 (2005) 401
- Svendsen, W.E., see Andersen, K.N. 243 (2005) 401
- Tague, T.J., see Bensebaa, F. 243 (2005) 238
- Tang, Y., Y. Zuo and H. Zhao, The current fluctuations and accumulated pitting damage of mild steel in $NaNO_2$ -NaCl solution 243 (2005) 82
- Tatsuma, T., see Kubo, W. 243 (2005) 125
- Tavares, P.B., see Mardare, C.C. 243 (2005) 113
- Teng, F., see Wang, Y.-M. 243 (2005) 355
- Thareja, R.K., see Sharma, A.K. 243 (2005) 68
- Tian, D.-C., see Wang, Q.-Q. 243 (2005) 329
- Tiedje, H.F., see Borowiec, A. 243 (2005) 129
- Tlaczala, M., see Srnanek, R. 243 (2005) 96
- Tofail, S.A.M., see Sarac, A.S. 243 (2005) 183
- Toledo, A., see Chen, L.F. 243 (2005) 319
- Torchynska, T., see Korsunskaya, N. 243 (2005) 30
- Triani, G., see Mitchell, D.R.G. 243 (2005) 265
- Tsai, T.K., see Liu, C.M. 243 (2005) 259
- Tsud, N., see Matolín, V. 243 (2005) 106
- Tsuji, M., see Tsuji, T. 243 (2005) 214
- Tsuji, T., T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji, Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles 243 (2005) 214
- Šutara, F., see Matolín, V. 243 (2005) 106
- Utas, O.A., see Saranin, A.A. 243 (2005) 199
- Veltruská, K., see Matolín, V. 243 (2005) 106
- Vyas, J.C., see Debnath, A.K. 243 (2005) 220
- Wang, H.M., see Xue, Y. 243 (2005) 278
- Wang, J.A., see Chen, L.F. 243 (2005) 319
- Wang, M., see Wang, X.Q. 243 (2005) 151
- Wang, Q.-Q., J.-B. Hun, S. Ding, G.-G. Xiong and D.-C. Tian, Percolation characters of sputtered and vaporized semi-continuous silver island films 243 (2005) 329
- Wang, X., see Ma, Y. 243 (2005) 24
- Wang, X.J., see Yuan, H.T. 243 (2005) 36
- Wang, X.Q., M. Wang, H.X. Jin, Z.H. Li and P.M. He, Preparation of carbon nanotubes at the surface of Fe/SBA-15 mesoporous molecular sieve 243 (2005) 151
- Wang, Y., see Zhang, D. 243 (2005) 232
- Wang, Y.-M., F. Teng, Z. Xu, Y.-B. Hou, Y.-S. Wang and X.-R. Xu, Enhancement of electroluminescence by using multi-layer device structure 243 (2005) 355
- Wang, Y.-S., see Wang, Y.-M. 243 (2005) 355
- Wang, Y.X., Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao, Influence of thickness on field emission characteristics of AlN thin films 243 (2005) 394
- Wei, X.-M., see Zhang, J.-M. 243 (2005) 1
- Welter, E., see Kappen, P. 243 (2005) 287
- Wong, M., see Zhu, M. 243 (2005) 89
- Xie, J., see Li, J. 243 (2005) 437
- Xin, H., see Zhang, J.-M. 243 (2005) 1
- Xiong, G.-G., see Wang, Q.-Q. 243 (2005) 329
- Xu, M., see Guo, H. 243 (2005) 245
- Xu, X.-R., see Wang, Y.-M. 243 (2005) 355
- Xu, Z., see Wang, Y.-M. 243 (2005) 355
- Xue, Y. and H.M. Wang, Microstructure and wear properties of laser clad TiCo/Ti₂Co intermetallic coatings on titanium alloy 243 (2005) 278
- Yakhmi, J.V., see Debnath, A.K. 243 (2005) 220
- Yamaguchi, M., see Ahn, H.S. 243 (2005) 178
- Yamaki, J., see Tsuji, T. 243 (2005) 214
- Yan, D., see Feng, W. 243 (2005) 204
- Yang, M., see Ahn, H.S. 243 (2005) 178
- Yang, S., see Feng, W. 243 (2005) 204
- Yi, J.Y., see Ahn, H.S. 243 (2005) 178
- Yin, J., see Ma, Y. 243 (2005) 24
- Yin, M., see Guo, H. 243 (2005) 245

- Yuan, H.T., K.C. Feng, X.J. Wang, C.J. He, D.H. Li, Y.X. Nie and K.A. Feng, Research on optical property of phase transition PcNi/VO_2 films 243 (2005) 36
- Yuan, N., see Li, J. 243 (2005) 437
- Yukhymchuk, V., see Korsunskaya, N. 243 (2005) 30
- Zhang, D., S. Fan, Y. Zhao, W. Gao, J. Shao, R. Fan, Y. Wang and Z. Fan, High laser-induced damage threshold HfO_2 films prepared by ion-assisted electron beam evaporation 243 (2005) 232
- Zhang, G., see Feng, W. 243 (2005) 204
- Zhang, J.-M., X.-M. Wei and H. Xin, Energy analysis for (111) twist grain boundary in noble metals 243 (2005) 1
- Zhang, W., see Guo, H. 243 (2005) 245
- Zhang, X., see Gao, Y. 243 (2005) 19
- Zhang, X., see Ma, Y. 243 (2005) 24
- Zhang, Y., see Gao, Y. 243 (2005) 19
- Zhang, Y., see Ma, Y. 243 (2005) 24
- Zhao, C.H., see Wang, Y.X. 243 (2005) 394
- Zhao, H., see Tang, Y. 243 (2005) 82
- Zhao, Y., see Zhang, D. 243 (2005) 232
- Zhao, Y.N., see Wang, Y.X. 243 (2005) 394
- Zhu, M., X. Shi, P. Chen, W. Liu, M. Wong, C. Lin and P.K. Chu, Formation of silicon on plasma synthesized SiO_xN_y and reaction mechanism 243 (2005) 89
- Zúñiga, L., see Campos, I. 243 (2005) 429
- Zimmer, K. and R. Böhme, Precise etching of fused silica for micro-optical applications 243 (2005) 415
- Zotov, A.V., see Saranin, A.A. 243 (2005) 199
- Zuo, Y., see Tang, Y. 243 (2005) 82



ELSEVIER

Applied Surface Science 243 (2005) VI–XXII

applied
surface science

www.elsevier.com/locate/apsusc

Subject Index

Ablation

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Accumulated damage

- The current fluctuations and accumulated pitting damage of mild steel in NaNO_2 – NaCl solution, Y. Tang, Y. Zuo and H. Zhao 243 (2005) 82

Adhesion

- Interfacial studies for improving the adhesion of diamond-like carbon films on steel, C.-C. Chen and F.C.-N. Hong 243 (2005) 296

AES

- Growth of thick AlGaIn by mixed-source hydride vapor phase epitaxy, H.S. Ahn, K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki 243 (2005) 178

AFM

- The deepness enhancing of an AFM-tip induced surface nanomodification, D.V. Sheglov, A.V. Latyshev and A.L. Aseev 243 (2005) 138
- Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre. AFM, XPS, and Raman spectroscopy, A.S. Sarac, M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle 243 (2005) 183
- Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy, A.K. Debnath, N. Joshi, K.P. Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta and J.V. Yakhmi 243 (2005) 220

- Nitrogen ion implantation on stainless steel: AFM study of surface modification, B. Chico, L. Martinez and F.J. Pérez 243 (2005) 409

Ag colloids

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Ag/Al bilayer-structures

- Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy, A.K. Debnath, N. Joshi, K.P. Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta and J.V. Yakhmi 243 (2005) 220

Ageing

- Radiation and storage-induced ageing of polypyrrole doped with dodecylbenzene sulfonic acid, P. Kappen, N. Brack, P.S. Hale, W. Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

AISI 304 SS

- Nitrogen ion implantation on stainless steel: AFM study of surface modification, B. Chico, L. Martinez and F.J. Pérez 243 (2005) 409

ALD

- TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition, D.R.G. Mitchell, D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett 243 (2005) 265

AlGaIn

- Growth of thick AlGaIn by mixed-source hydride vapor phase epitaxy, H.S. Ahn, K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki 243 (2005) 178

Alkanethiol

- Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers, F. Bensebaa, P. L'Ecuyer, K. Faid, C. Py, T.J. Tague and R.S. Jackson 243 (2005) 238

Alloys

- Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study, V. Matolín, V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská 243 (2005) 106

Al₂O₃

- TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition, D.R.G. Mitchell, D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett 243 (2005) 265

Aluminium

- Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies, H. Ardelean, S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari 243 (2005) 304

Aluminum nitride

- Influence of thickness on field emission characteristics of AlN thin films, Y.X. Wang, Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao 243 (2005) 394

Amorphous materials

- Electron beam induced surface modification of amorphous Sb₂S₃ chalcogenide films, R.K. Debnath and A.G. Fitzgerald 243 (2005) 148
- Electron beam induced chemical modification of amorphous chalcogenide-metal bilayers and its application, R.K. Debnath, N. Nubar and A.G. Fitzgerald 243 (2005) 228

Annealing

- Annealing and deposition effects of the chemical composition of silicon-rich nitride, K.N. Andersen, W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner 243 (2005) 401

- Annealing characteristics of the vanadium oxide films prepared by modified ion beam enhanced deposition, J. Li, N. Yuan and J. Xie 243 (2005) 437

Antimony

- Electron beam induced surface modification of amorphous Sb₂S₃ chalcogenide films, R.K. Debnath and A.G. Fitzgerald 243 (2005) 148

Atomic force microscopy

- Raman scattering characterization of macro- and nanoporous silicon, N. Korsunska, B. Bulakh, B. Jumayev, L. Khomenkova, V. Yukhymchuk and T. Torchynska 243 (2005) 30
- Wavelength dependence of the single pulse femtosecond laser ablation threshold of indium phosphide in the 400–2050nm range, A. Borowiec, H.F. Tiedje and H.K. Haugen 243 (2005) 129
- Electron beam induced surface modification of amorphous Sb₂S₃ chalcogenide films, R.K. Debnath and A.G. Fitzgerald 243 (2005) 148
- Electron beam induced chemical modification of amorphous chalcogenide-metal bilayers and its application, R.K. Debnath, N. Nubar and A.G. Fitzgerald 243 (2005) 228

Atom-solid interactions

- Formation of Si nanodot arrays on the oxidized Si(100) surface, A.A. Saranin, A.V. Zotov, V.G. Kotlyar, O.A. Utas, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park 243 (2005) 199

Ba and Sr oxides

- The study of the effect of Ba coverage through the accelerations lifetime of activated BaO/SrO cathodes, A.A. Hashim, A.K. Ray, A.K. Hassan and D.S. Barratt 243 (2005) 421

Bevel

- Micro-Raman study of photoexcited plasma in GaAs bevelled structures, R. Srnanek, G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziewicz, M. Tlaczala, M. Florovic and I. Novotny 243 (2005) 96

Bio-mimetic surfaces

- Chromophore binding to in vitro engineered bio-mimetic surfaces, J.M. Kinsella and A. Ivanisevic 243 (2005) 7

Boriding

- Effect of boron paste thickness on the growth kinetics of Fe₂B boride layers during the boriding process, I. Campos, O. Bautista, G. Ramírez, M. Islas, J. De La Parra and L. Zúñiga 243 (2005) 429

Boron potential

- Effect of boron paste thickness on the growth kinetics of Fe₂B boride layers during the boriding process, I. Campos, O. Bautista, G. Ramírez, M. Islas, J. De La Parra and L. Zúñiga 243 (2005) 429

Brightness

- Characterization and conductive coating of phosphors for improved brightness, C.-H. Chang, B.-S. Chiou, K.-S. Chen and J.-C. Ho 243 (2005) 55

CaF₂ substrate

- Growth and characteristics of ZnO thin film on CaF₂ (11-21) substrate by metalorganic vapor phase epitaxy, Y. Ma, G. Du, X. Wang, W. Li, J. Yin, D. Qiu, B. Song, X. Zhang, Y. Zhang and D. Liu 243 (2005) 24

Calculation

- Energy analysis for (111) twist grain boundary in noble metals, J.-M. Zhang, X.-M. Wei and H. Xin 243 (2005) 1

Carbon fibre

- Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre. AFM, XPS, and Raman spectroscopy, A.S. Sarac, M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle 243 (2005) 183

Carbon nanotubes

- Preparation of carbon nanotubes at the surface of Fe/SBA-15 mesoporous molecular sieve, X.Q. Wang, M. Wang, H.X. Jin, Z.H. Li and P.M. He 243 (2005) 151

Carbon-carbon composites

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau 243 (2005) 376

CdTe/ZnTe

- Microstructural and interband transition properties in CdTe quantum dots grown on ZnTe buffer layers by using atomic layer epitaxy, Y.S. No, T.W. Kim, H.S. Lee and H.L. Park 243 (2005) 143

Ceramic membranes

- Interaction of hydrogen sulfide with Zr_{0.92}Y_{0.08}O_{2-δ}/40% Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher 243 (2005) 40

Ceria-zirconia

- Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen, L.F. Chen, G. González, J.A. Wang, L.E. Noreña, A. Toledo, S. Castillo and M. Morán-Pineda 243 (2005) 319

Cermets

- Interaction of hydrogen sulfide with Zr_{0.92}Y_{0.08}O_{2-δ}/40% Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher 243 (2005) 40

Chemical reduction

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Chemical vapor deposition (CVD)

- Preparation of carbon nanotubes at the surface of Fe/SBA-15 mesoporous molecular sieve, X.Q. Wang, M. Wang, H.X. Jin, Z.H. Li and P.M. He 243 (2005) 151

Chromium

- Interfacial studies for improving the adhesion of diamond-like carbon films on steel, C.-C. Chen and F.C.-N. Hong 243 (2005) 296

CNT cathode

- Ion bombardment in a normal-gate FED, Y. Gao, X. Zhang, W. Lei, M. Liu, Y. Zhang and D. Engelsen 243 (2005) 19

Co⁰

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

CO oxidation

- Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen, L.F. Chen, G. González, J.A. Wang, L.E. Noreña, A. Toledo, S. Castillo and M. Morán-Pineda 243 (2005) 319

Co³⁺

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

Coating

- Microstructure and wear properties of laser clad TiCo/Ti₂Co intermetallic coatings on titanium alloy, Y. Xue and H.M. Wang 243 (2005) 278

Cobalt

- Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers, Y. Chushkin, M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino 243 (2005) 62
- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Cobalt oxides

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Colloids

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Copper

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

Cs adsorption

- A theoretical study of Cs adsorption at tips of single-wall carbon nanotubes: field emission properties, X. Duan, B. Akdim and R. Pachter 243 (2005) 11

Current emission

- Influence of thickness on field emission characteristics of AlN thin films, Y.X. Wang, Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao 243 (2005) 394

Current fluctuations

- The current fluctuations and accumulated pitting damage of mild steel in NaNO₂-NaCl solution, Y. Tang, Y. Zuo and H. Zhao 243 (2005) 82

Damage

- Radiation and storage-induced ageing of polypyrrole doped with dodecylbenzene sulfonic acid, P. Kappen, N. Brack, P.S. Hale, W. Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

Density functional theory

- A theoretical study of Cs adsorption at tips of single-wall carbon nanotubes: field emission properties, X. Duan, B. Akdim and R. Pachter 243 (2005) 11

Diamond-like carbon

- Interfacial studies for improving the adhesion of diamond-like carbon films on steel, C.-C. Chen and F.C.-N. Hong 243 (2005) 296

Diffusion

- Influence of the growth-surface on the incorporation of phosphorus in SiC, E. Rauls, U. Gerstmann and T. Frauenheim 243 (2005) 345

Diffusion coefficient

- Effect of boron paste thickness on the growth kinetics of Fe₂B boride layers during the boriding process, I. Campos, O. Bautista, G. Ramírez, M. Islas, J. De La Parra and L. Zúñiga 243 (2005) 429

Drag model

- Plume dynamics of laser-produced aluminum plasma in ambient nitrogen, A.K. Sharma and R.K. Thareja 243 (2005) 68

Electrical properties

- The study of the effect of Ba coverage through the accelerations lifetime of activated BaO/SrO cathodes, A.A. Hashim, A.K. Ray, A.K. Hassan and D.S. Barratt 243 (2005) 421

Electrodeposition

- Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform, F. Hu and K.C. Chan 243 (2005) 251

Electroless

- Interfacial reactions of electroless nickel thin films on silicon, C.M. Liu, W.L. Liu, S.H. Hsieh, T.K. Tsai and W.J. Chen 243 (2005) 259

Electron emission

- The study of the effect of Ba coverage through the accelerations lifetime of activated BaO/SrO cathodes, A.A. Hashim, A.K. Ray, A.K. Hassan and D.S. Barratt 243 (2005) 421

Electron-stimulated desorption

- Charging effects on electron-stimulated desorption of cations from gadolinia-doped ceria surfaces, H. Chen, Y. Chen, A. Aleksandrov, J. Dong, M. Liu and T.M. Orlando 243 (2005) 166

Electroplex

- Enhancement of electroplex emission by using multi-layer device structure, Y.-M. Wang, F.

- Teng, Z. Xu, Y.-B. Hou, Y.-S. Wang and X.-R. Xu 243 (2005) 355

Electropolishing

- Nitrogen ion implantation on stainless steel: AFM study of surface modification, B. Chico, L. Martinez and F.J. Pérez 243 (2005) 409

Ellipsometry

- TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition, D.R.G. Mitchell, D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett 243 (2005) 265

Epitaxial

- Interfacial reactions of electroless nickel thin films on silicon, C.M. Liu, W.L. Liu, S.H. Hsieh, T.K. Tsai and W.J. Chen 243 (2005) 259

Equivalent circuit model

- Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform, F. Hu and K.C. Chan 243 (2005) 251

Excimer laser

- Precise etching of fused silica for micro-optical applications, K. Zimmer and R. Böhme 243 (2005) 415

Femtosecond laser ablation of semiconductor

- Wavelength dependence of the single pulse femtosecond laser ablation threshold of indium phosphide in the 400–2050nm range, A. Borowiec, H.F. Tiedje and H.K. Haugen 243 (2005) 129

Ferroelectric properties

- Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering, C.C. Mardare, E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. Sá and P.B. Tavares 243 (2005) 113

Field emission

- A theoretical study of Cs adsorption at tips of single-wall carbon nanotubes: field emission properties, X. Duan, B. Akdim and R. Pachter 243 (2005) 11

- Influence of thickness on field emission characteristics of AlN thin films, Y.X. Wang, Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao

243 (2005) 394

Film

- Effect of heat-treatment temperature on the luminescent properties of $\text{Lu}_2\text{O}_3:\text{Eu}$ film prepared by Pechini sol-gel method, H. Guo, M. Yin, N. Dong, M. Xu, L. Lou and W. Zhang

243 (2005) 245

Fracture toughness

- Microhardness and toughness of the TiN coating prepared by reactive plasma spraying, W. Feng, D. Yan, J. He, G. Zhang, G. Chen, W. Gu and S. Yang

243 (2005) 204

FTIR

- Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers, F. Bensebaa, P. L'Ecuyer, K. Faïd, Ch. Py, T.J. Tague and R.S. Jackson

243 (2005) 238

Fuel cell electrodes

- Interaction of hydrogen sulfide with $\text{Zr}_{0.92}\text{Y}_{0.08}\text{O}_{2-\delta}/40\%$ Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher

243 (2005) 40

Fused silica

- Precise etching of fused silica for micro-optical applications, K. Zimmer and R. Böhme

243 (2005) 415

GaAs

- Micro-Raman study of photoexcited plasma in GaAs bevelled structures, R. Srnanek, G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziejewicz, M. Tlaczala, M. Florovic and I. Novotny

243 (2005) 96

Gadolinia-doped ceria

- Charging effects on electron-stimulated desorption of cations from gadolinia-doped ceria surfaces, H. Chen, Y. Chen, A. Aleksandrov, J. Dong, M. Liu and T.M. Orlando

243 (2005) 166

GaN

- Growth of thick AlGaN by mixed-source hydride vapor phase epitaxy, H.S. Ahn, K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki

243 (2005) 178

Gas separation membranes

- Interaction of hydrogen sulfide with $\text{Zr}_{0.92}\text{Y}_{0.08}\text{O}_{2-\delta}/40\%$ Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher

243 (2005) 40

Getters

- Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study, V. Matolín, V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská

243 (2005) 106

Giant magnetoresistance

- Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers, Y. Chushkin, M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino

243 (2005) 62

Grain boundary energy

- Energy analysis for (111) twist grain boundary in noble metals, J.-M. Zhang, X.-M. Wei and H. Xin

243 (2005) 1

Growth

- Influence of the growth-surface on the incorporation of phosphorus in SiC, E. Rauls, U. Gerstmann and T. Frauenheim

243 (2005) 345

Heat treatment

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau

243 (2005) 376

HfO₂ films

- High laser-induced damage threshold HfO₂ films prepared by ion-assisted electron beam evaporation, D. Zhang, S. Fan, Y. Zhao, W. Gao, J. Shao, R. Fan, Y. Wang and Z. Fan

243 (2005) 232

High temperature cermets

- Interaction of hydrogen sulfide with $Zr_{0.92}Y_{0.08}O_{2-\delta}/40\%$ Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher 243 (2005) 40

HVPE

- Growth of thick AlGaIn by mixed-source hydride vapor phase epitaxy, H.S. Ahn, K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki 243 (2005) 178

InCl₃

- Characterization and conductive coating of phosphors for improved brightness, C.-H. Chang, B.-S. Chiou, K.-S. Chen and J.-C. Ho 243 (2005) 55

Indium phosphide

- Wavelength dependence of the single pulse femtosecond laser ablation threshold of indium phosphide in the 400–2050nm range, A. Borowiec, H.F. Tiedje and H.K. Haugen 243 (2005) 129

In₂O₃

- Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method, V. Brinzari, G. Korotcenkov and V. Matolin 243 (2005) 335

In₂O₃ core level and valence band spectra

- Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method, V. Brinzari, G. Korotcenkov and V. Matolin 243 (2005) 335

Interaction of H₂S with cermets

- Interaction of hydrogen sulfide with $Zr_{0.92}Y_{0.08}O_{2-\delta}/40\%$ Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher 243 (2005) 40

Interband transition

- Microstructural and interband transition properties in CdTe quantum dots grown on ZnTe buffer layers by using atomic layer epitaxy, Y.S. No, T.W. Kim, H.S. Lee and H.L. Park 243 (2005) 143

Interface replication

- Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers, Y. Chushkin, M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino 243 (2005) 62

Intermetallics

- Microstructure and wear properties of laser clad TiCo/Ti₂Co intermetallic coatings on titanium alloy, Y. Xue and H.M. Wang 243 (2005) 278

Intermixing layer

- Interfacial studies for improving the adhesion of diamond-like carbon films on steel, C.-C. Chen and F.C.-N. Hong 243 (2005) 296

Ion beam enhanced deposition

- Annealing characteristics of the vanadium oxide films prepared by modified ion beam enhanced deposition, J. Li, N. Yuan and J. Xie 243 (2005) 437

Ion bombardment

- Ion bombardment in a normal-gate FED, Y. Gao, X. Zhang, W. Lei, M. Liu, Y. Zhang and D. Engelsen 243 (2005) 19

Ion implantation

- Nitrogen ion implantation on stainless steel: AFM study of surface modification, B. Chico, L. Martinez and F.J. Pérez 243 (2005) 409

Ion irradiation

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau 243 (2005) 376

Ion-assisted reaction

- High laser-induced damage threshold HfO₂ films prepared by ion-assisted electron beam evaporation, D. Zhang, S. Fan, Y. Zhao, W. Gao, J. Shao, R. Fan, Y. Wang and Z. Fan 243 (2005) 232

Iron

- Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers, Y. Chushkin, M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino 243 (2005) 62

 γ -Irradiation

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Kinetics

- Effect of boron paste thickness on the growth kinetics of Fe₂B boride layers during the boriding process, I. Campos, O. Bautista, G. Ramírez, M. Islas, J. De La Parra and L. Zúñiga 243 (2005) 429

LaCo_{0.85}Cu_{0.15}O₃

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

LaCoO₃

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

Laser

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Laser cladding

- Microstructure and wear properties of laser clad TiCo/Ti₂Co intermetallic coatings on titanium alloy, Y. Xue and H.M. Wang 243 (2005) 278

Laser etching

- Precise etching of fused silica for micro-optical applications, K. Zimmer and R. Böhme 243 (2005) 415

Laser treatment

- Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies, H. Ardelean, S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari 243 (2005) 304

Laser-induced damage threshold

- High laser-induced damage threshold HfO₂ films prepared by ion-assisted electron beam evaporation, D. Zhang, S. Fan, Y. Zhao, W. Gao, J. Shao, R. Fan, Y. Wang and Z. Fan 243 (2005) 232

Liquid

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Local anodic oxidation

- The deepness enhancing of an AFM-tip induced surface nanomodification, D.V. Sheglov, A.V. Latyshev and A.L. Aseev 243 (2005) 138

LPCVD

- Annealing and deposition effects of the chemical composition of silicon-rich nitride, K.N. Andersen, W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner 243 (2005) 401

Luminescent property

- Effect of heat-treatment temperature on the luminescent properties of Lu₂O₃:Eu film prepared by Pechini sol-gel method, H. Guo, M. Yin, N. Dong, M. Xu, L. Lou and W. Zhang 243 (2005) 245

Lutetium oxide (Lu₂O₃)

- Effect of heat-treatment temperature on the luminescent properties of Lu₂O₃:Eu film prepared by Pechini sol-gel method, H. Guo, M. Yin, N. Dong, M. Xu, L. Lou and W. Zhang 243 (2005) 245

MAEAM

- Energy analysis for (111) twist grain boundary in noble metals, J.-M. Zhang, X.-M. Wei and H. Xin 243 (2005) 1

Metal

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Metal oxides

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Metal/polymer adhesion

- Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies, H. Ardelean, S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari 243 (2005) 304

Metalorganic vapor phase epitaxy

- Growth and characteristics of ZnO thin film on CaF_2 (11-21) substrate by metalorganic vapor phase epitaxy, Y. Ma, G. Du, X. Wang, W. Li, J. Yin, D. Qiu, B. Song, X. Zhang, Y. Zhang and D. Liu 243 (2005) 24

Metal-to-insulator transition

- Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy, A.K. Debnath, N. Joshi, K.P. Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta and J.V. Yakhmi 243 (2005) 220

Metastable pitting

- The current fluctuations and accumulated pitting damage of mild steel in NaNO_2 -NaCl solution, Y. Tang, Y. Zuo and H. Zhao 243 (2005) 82

Microcontact

- Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers, F. Bensebaa, P. L'Ecuyer, K. Faid, C. Py, T.J. Tague and R.S. Jackson 243 (2005) 238

Micro-Raman

- Micro-Raman study of photoexcited plasma in GaAs bevelled structures, R. Smanek, G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziewicz, M. Tlaczala, M. Florovic and I. Novotny 243 (2005) 96

Microscopy

- Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers, F. Bensebaa, P. L'Ecuyer, K. Faid, C. Py, T.J. Tague and R.S. Jackson 243 (2005) 238

Microstructure

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau 243 (2005) 376

Mild steel

- The current fluctuations and accumulated pitting damage of mild steel in NaNO_2 -NaCl solution, Y. Tang, Y. Zuo and H. Zhao 243 (2005) 82

Molecular beam epitaxy

- Surface and electrical-transport studies of Ag/Al bilayer-structures grown by molecular beam epitaxy, A.K. Debnath, N. Joshi, K.P. Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta and J.V. Yakhmi 243 (2005) 220

Monolayer

- Grazing angle infrared microspectroscopy of micropatterned self-assembled monolayers, F. Bensebaa, P. L'Ecuyer, K. Faid, C. Py, T.J. Tague and R.S. Jackson 243 (2005) 238

Morphology

- Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform, F. Hu and K.C. Chan 243 (2005) 251

Multi-layer device structure

- Enhancement of electroplex emission by using multi-layer device structure, Y.-M. Wang, F. Teng, Z. Xu, Y.-B. Hou, Y.-S. Wang and X.-R. Xu 243 (2005) 355

Nanolaminates

- TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition, D.R.G. Mitchell, D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett 243 (2005) 265

Nanoparticles

- Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles, T. Tsuji, T. Hamagami, T. Kawamura, J. Yamaki and M. Tsuji 243 (2005) 214

Nanoporous silicon

- Raman scattering characterization of macro- and nanoporous silicon, N. Korsunskaya, B. Bulakh, B. Jumayev, L. Khomenkova, V. Yuhymchuk and T. Torchynska 243 (2005) 30

Nanosize polymer coatings

- Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre. AFM, XPS, and Raman spectroscopy, A.S. Sarac, M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle 243 (2005) 183

Nanostructuring

- The deepness enhancing of an AFM-tip induced surface nanomodification, D.V. Sheglov, A.V. Latyshev and A.L. Aseev 243 (2005) 138

Ni films

- Interfacial reactions of electroless nickel thin films on silicon, C.M. Liu, W.L. Liu, S.H. Hsieh, T.K. Tsai and W.J. Chen 243 (2005) 259

Ni-SiC

- Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform, F. Hu and K.C. Chan 243 (2005) 251

NO reduction

- Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen, L.F. Chen, G. González, J.A. Wang, L.E. Noreña, A. Toledo, S. Castillo and M. Morán-Pineda 243 (2005) 319

Noble metals

- Energy analysis for (111) twist grain boundary in noble metals, J.-M. Zhang, X.-M. Wei and H. Xin 243 (2005) 1

Numerical simulation

- Ion bombardment in a normal-gate FED, Y. Gao, X. Zhang, W. Lei, M. Liu, Y. Zhang and D. Engelsen 243 (2005) 19

Optical limiting

- Research on optical property of phase transition PcNi/VO₂ films, H.T. Yuan, K.C. Feng, X.J. Wang, C.J. He, D.H. Li, Y.X. Nie and K.A. Feng 243 (2005) 36

Optical properties

- Percolation characters of sputtered and vaporized semi-continuous silver island films, Q.-Q. Wang, J.-B. Hun, S. Ding, G.-G. Xiong and D.-C. Tian 243 (2005) 329

Optical property

- Growth of thick AlGaIn by mixed-source hydride vapor phase epitaxy, H.S. Ahn, K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee, C.R. Cho, H.K. Cho, S.W. Kim, T. Narita, Y. Honda, M. Yamaguchi and N. Sawaki 243 (2005) 178

Oxide cathode

- The study of the effect of Ba coverage through the accelerations lifetime of activated BaO/SrO cathodes, A.A. Hashim, A.K. Ray, A.K. Hassan and D.S. Barratt 243 (2005) 421

Oxygen

- Formation of Si nanodot arrays on the oxidized Si(1 0 0) surface, A.A. Saranin, A.V. Zotov, V.G. Kotlyar, O.A. Uras, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park 243 (2005) 199

PcNi

- Research on optical property of phase transition PcNi/VO₂ films, H.T. Yuan, K.C. Feng, X.J. Wang, C.J. He, D.H. Li, Y.X. Nie and K.A. Feng 243 (2005) 36

Peptides

- Chromophore binding to in vitro engineered bio-mimetic surfaces, J.M. Kinsella and A. Ivanisevic 243 (2005) 7

Perovskite

- Reducibility of Co³⁺ in perovskite-type LaCoO₃ and promotion of copper on the reduction of Co³⁺ in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

Phosphor

- Characterization and conductive coating of phosphors for improved brightness, C.-H. Chang, B.-S. Chiou, K.-S. Chen and J.-C. Ho 243 (2005) 55

Phosphorus

- Influence of the growth-surface on the incorporation of phosphorus in SiC, E. Rauls, U. Gerstmann and T. Frauenheim 243 (2005) 345

Photocatalytic lithography

- Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography, W. Kubo and T. Tatsuma 243 (2005) 125

Photoelectron spectroscopy

- Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study, V. Matolín, V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská 243 (2005) 106

Photoexcited plasma

- Micro-Raman study of photoexcited plasma in GaAs bevelled structures, R. Srnanek, G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziewicz, M. Tlaczala, M. Florovic and I. Novotny 243 (2005) 96

4-Picoline

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Plasma immersion ion implantation (PIII)

- Formation of silicon on plasma synthesized SiO_xN_y and reaction mechanism, M. Zhu, X. Shi, P. Chen, W. Liu, M. Wong, C. Lin and P.K. Chu 243 (2005) 89

Plasma treatment

- Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies, H. Ardelean, S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari 243 (2005) 304

Plasmon-LO-phonon coupling

- Micro-Raman study of photoexcited plasma in GaAs bevelled structures, R. Srnanek, G. Irmer, J. Geurts, M. Lentze, D. Donoval, B. Sciana, D. Radziewicz, M. Tlaczala, M. Florovic and I. Novotny 243 (2005) 96

Polyethylene terephthalate

- Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies, H. Ardelean, S. Petit, P. Laurens, P. Marcus and F. Arefi-Khonsari 243 (2005) 304

Polypyrrole

- Radiation and storage-induced ageing of polypyrrole doped with dodecylbenzene sulfonic acid, P. Kappen, N. Brack, P.S. Hale, W. Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

Properties

- Growth and characteristics of ZnO thin film on CaF₂ (11-21) substrate by metalorganic vapor phase epitaxy, Y. Ma, G. Du, X. Wang, W. Li, J. Yin, D. Qiu, B. Song, X. Zhang, Y. Zhang and D. Liu 243 (2005) 24

PZT

- Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering, C.C. Mardare, E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. Sá and P.B. Tavares 243 (2005) 113

Quantum dots

- Microstructural and interband transition properties in CdTe quantum dots grown on ZnTe buffer layers by using atomic layer epitaxy, Y.S. No, T.W. Kim, H.S. Lee and H.L. Park 243 (2005) 143

Radiation damage

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau 243 (2005) 376

Raman scattering effect

- Raman scattering characterization of macro- and nanoporous silicon, N. Korsunskaya, B. Bulakh, B. Jumayev, L. Khomenkova, V. Yuhymchuk and T. Torchynska 243 (2005) 30

Raman spectroscopy

- Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre, A.S. Sarac, M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle 243 (2005) 183

Raman spectrum

- Preparation of carbon nanotubes at the surface of Fe/SBA-15 mesoporous molecular sieve, X.Q. Wang, M. Wang, H.X. Jin, Z.H. Li and P.M. He 243 (2005) 151

Random conductive copolymers

- Characterisation of nanosize thin films of electrografted *N*-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre. AFM, XPS, and Raman spectroscopy, A.S. Sarac, M. Serantoni, S.A.M. Tofail, J. Henry, V. Cunnane and J.B. McMonagle 243 (2005) 183

Rayleigh-Taylor instability

- Plume dynamics of laser-produced aluminum plasma in ambient nitrogen, A.K. Sharma and R.K. Thareja 243 (2005) 68

Reactive plasma spraying

- Microhardness and toughness of the TiN coating prepared by reactive plasma spraying, W. Feng, D. Yan, J. He, G. Zhang, G. Chen, W. Gu and S. Yang 243 (2005) 204

Reduction

- Reducibility of Co^{3+} in perovskite-type LaCoO_3 and promotion of copper on the reduction of Co^{3+} in perovskite-type oxides, L. Huang, M. Bassir and S. Kaliaguine 243 (2005) 360

Remote oxidation

- Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography, W. Kubo and T. Tatsuma 243 (2005) 125

Roughness

- Nitrogen ion implantation on stainless steel: AFM study of surface modification, B. Chico, L. Martinez and F.J. Pérez 243 (2005) 409

SBA-15 mesoporous molecular sieve

- Preparation of carbon nanotubes at the surface of Fe/SBA-15 mesoporous molecular sieve, X.Q. Wang, M. Wang, H.X. Jin, Z.H. Li and P.M. He 243 (2005) 151

Scanning electronic microscopy

- Structural modifications of carbon-carbon composites under high temperature and ion irradiation, T. Paulmier, M. Balat-Pichelin and D. Le Quéau 243 (2005) 376

Scanning thermal microscopy

- Macro and microthermal analysis of plant wax/surfactant interactions: plasticizing effects of two alcohol ethoxylated surfactants on an isolated cuticular wax and leaf model, M.C. Perkins, C.J. Roberts, D. Briggs, M.C. Davies, A. Friedmann, C. Hart and G. Bell 243 (2005) 158

Scanning tunneling microscopy (STM)

- Formation of Si nanodot arrays on the oxidized Si(1 0 0) surface, A.A. Saranin, A.V. Zotov, V.G. Kotlyar, O.A. Utas, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park 243 (2005) 199

Secondary ion mass spectrometry

- Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study, V. Matolín, V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská 243 (2005) 106

Shock wave

- Plume dynamics of laser-produced aluminum plasma in ambient nitrogen, A.K. Sharma and R.K. Thareja 243 (2005) 68

Si diffusion

- Annealing and deposition effects of the chemical composition of silicon-rich nitride, K.N. Andersen, W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner 243 (2005) 401

SiC

- Influence of the growth-surface on the incorporation of phosphorus in SiC, E. Rauls, U. Gerstmann and T. Frauenheim 243 (2005) 345

Silicide

- Interfacial reactions of electroless nickel thin films on silicon, C.M. Liu, W.L. Liu, S.H. Hsieh, T.K. Tsai and W.J. Chen 243 (2005) 259

Silicon

- Formation of Si nanodot arrays on the oxidized Si(1 0 0) surface, A.A. Saranin, A.V. Zotov, V.G. Kotlyar, O.A. Utas, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park 243 (2005) 199

Silicon rich nitride

- Annealing and deposition effects of the chemical composition of silicon-rich nitride, K.N. Andersen, W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner 243 (2005) 401

Silicon-on-insulator (SOI)

- Formation of silicon on plasma synthesized SiO_xN_y and reaction mechanism, M. Zhu, X. Shi, P. Chen, W. Liu, M. Wong, C. Lin and P.K. Chu 243 (2005) 89

Single-wall carbon nanotubes

- A theoretical study of Cs adsorption at tips of single-wall carbon nanotubes: field emission properties, X. Duan, B. Akdim and R. Pachter 243 (2005) 11

Sodium benzoate

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Sol-gel

- Effect of heat-treatment temperature on the luminescent properties of $\text{Lu}_2\text{O}_3\text{:Eu}$ film prepared by Pechini sol-gel method, H. Guo, M. Yin, N. Dong, M. Xu, L. Lou and W. Zhang 243 (2005) 245

Solid oxide fuel cells

- Charging effects on electron-stimulated desorption of cations from gadolinia-doped ceria surfaces, H. Chen, Y. Chen, A. Aleksandrov, J. Dong, M. Liu and T.M. Orlando 243 (2005) 166

Solid-liquid interface

- Precise etching of fused silica for micro-optical applications, K. Zimmer and R. Böhme 243 (2005) 415

Sputtering

- Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering, C.C. Mardare, E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. Sá and P.B. Tavares 243 (2005) 113
- Percolation characters of sputtered and vaporized semi-continuous silver island films, Q.-Q. Wang, J.-B. Hun, S. Ding, G.-G. Xiong and D.-C. Tian 243 (2005) 329

Stoichiometry

- Annealing and deposition effects of the chemical composition of silicon-rich nitride, K.N. Andersen, W.E. Svendsen, T. Stimpel-Lindner, T. Sulima and H. Baumgärtner 243 (2005) 401

Super-hydrophilic

- Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography, W. Kubo and T. Tatsuma 243 (2005) 125

Super-hydrophobic

- Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography, W. Kubo and T. Tatsuma 243 (2005) 125

Surface

- Influence of the growth-surface on the incorporation of phosphorus in SiC, E. Rauls, U. Gerstmann and T. Frauenheim 243 (2005) 345

Surface characterization of membranes

- Interaction of hydrogen sulfide with $Zr_{0.92}Y_{0.08}O_{2-\delta}/40\%$ Ni cermet, R.V. Sirwardane, J.A. Poston Jr. and E.P. Fisher 243 (2005) 40

Surface nanomodification

- The deepness enhancing of an AFM-tip induced surface nanomodification, D.V. Sheglov, A.V. Latyshev and A.L. Aseev 243 (2005) 138

Surface potentials

- Charging effects on electron-stimulated desorption of cations from gadolinia-doped ceria surfaces, H. Chen, Y. Chen, A. Aleksandrov, J. Dong, M. Liu and T.M. Orlando 243 (2005) 166

Surface structure, morphology, roughness, and topography

- Formation of Si nanodot arrays on the oxidized Si(100) surface, A.A. Saranin, A.V. Zotov, V.G. Kotlyar, O.A. Utas, K.V. Ignatovich, T.V. Kasyanova, Y.S. Park and W.J. Park 243 (2005) 199

Surface wetting

- Macro and microthermal analysis of plant wax/surfactant interactions: plasticizing effects of two alcohol ethoxylated surfactants on an isolated cuticular wax and leaf model, M.C. Perkins, C.J. Roberts, D. Briggs, M.C. Davies, A. Friedmann, C. Hart and G. Bell 243 (2005) 158

Surface-enhanced Raman scattering (SERS) spectra

- Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by γ -irradiation, S.-H. Choi and H.G. Park 243 (2005) 76

Surfactant-controlled synthesis

- Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen, L.F. Chen, G. González, J.A. Wang, L.E. Noreña, A. Toledo, S. Castillo and M. Morán-Pineda 243 (2005) 319

Surfactants

- Macro and microthermal analysis of plant wax/surfactant interactions: plasticizing effects of two alcohol ethoxylated surfactants on an isolated cuticular wax and leaf model, M.C. Perkins, C.J. Roberts, D. Briggs, M.C. Davies, A. Friedmann, C. Hart and G. Bell 243 (2005) 158

Synchrotron radiation

- Radiation and storage-induced ageing of polypyrrole doped with dodecylbenzene sulfonic acid, P. Kappen, N. Brack, P.S. Hale, W. Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

Synchrotron radiation photoemission spectroscopy

- Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method, V. Brinzari, G. Korotcenkov and V. Matolin 243 (2005) 335

Thermochromism

- Research on optical property of phase transition PcNi/VO₂ films, H.T. Yuan, K.C. Feng, X.J. Wang, C.J. He, D.H. Li, Y.X. Nie and K.A. Feng 243 (2005) 36

Thin film

- Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method, V. Brinzari, G. Korotcenkov and V. Matolin 243 (2005) 335

Thin films

- Percolation characters of sputtered and vaporized semi-continuous silver island films, Q.-Q. Wang, J.-B. Hun, S. Ding, G.-G. Xiong and D.-C. Tian 243 (2005) 329
- Influence of thickness on field emission characteristics of AlN thin films, Y.X. Wang, Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao 243 (2005) 394

Three-way catalyst

- Surfactant-controlled synthesis of Pd/Ce_{0.6}Zr_{0.4}O₂ catalyst for NO reduction by CO with excess oxygen, L.F. Chen, G. González, J.A. Wang, L.E. Noreña, A. Toledo, S. Castillo and M. Morán-Pineda 243 (2005) 319

TiN coating

- Microhardness and toughness of the TiN coating prepared by reactive plasma spraying, W. Feng, D. Yan, J. He, G. Zhang, G. Chen, W. Gu and S. Yang 243 (2005) 204

TiO₂

- TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition, D.R.G. Mitchell, D.J. Attard, K.S. Finnie, G. Triani, C.J. Barbé, C. Depagne and J.R. Bartlett 243 (2005) 265

TiO₂ photocatalyst

- Conversion of a solid surface from super-hydrophobic to super-hydrophilic by photocatalytic remote oxidation and photocatalytic lithography, W. Kubo and T. Tatsuma 243 (2005) 125

Titanium

- Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering, C.C. Mardare, E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. Sá and P.B. Tavares 243 (2005) 113

Titanium alloy

- Microstructure and wear properties of laser clad TiCo/Ti₂Co intermetallic coatings on titanium alloy, Y. Xue and H.M. Wang 243 (2005) 278

Triangular waveform

- Deposition behaviour and morphology of Ni-SiC electro-composites under triangular waveform, F. Hu and K.C. Chan 243 (2005) 251

Tungsten

- Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers, Y. Chushkin, M. Jergel, Š. Luby, E. Majková, M. Ožvold, Y. Kuwasawa, S. Okayasu, E. D'Anna, A. Luches and M. Martino 243 (2005) 62

Turn-on electric field

- Influence of thickness on field emission characteristics of AlN thin films, Y.X. Wang, Y.A. Li, W. Feng, W.Q. Li, C.H. Zhao, L.H. Liu, K.C. Feng and Y.N. Zhao 243 (2005) 394

Vanadium

- Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study, V. Matolín, V. Dudr, S. Fabík, V. Cháb, K. Mašek, I. Matolínová, K.C. Prince, T. Skála, F. Šutara, N. Tsud and K. Veltruská 243 (2005) 106

Vanadium oxide films

- Annealing characteristics of the vanadium oxide films prepared by modified ion beam enhanced deposition, J. Li, N. Yuan and J. Xie 243 (2005) 437

VO₂

- Research on optical property of phase transition
PcNi/VO₂ films, H.T. Yuan, K.C. Feng, X.J.
Wang, C.J. He, D.H. Li, Y.X. Nie and K.A.
Feng 243 (2005) 36

Wafer bonding

- Formation of silicon on plasma synthesized
SiO_xN_y and reaction mechanism, M. Zhu,
X. Shi, P. Chen, W. Liu, M. Wong, C. Lin
and P.K. Chu 243 (2005) 89

Weak absorption

- High laser-induced damage threshold HfO₂
films prepared by ion-assisted electron
beam evaporation, D. Zhang, S. Fan, Y.
Zhao, W. Gao, J. Shao, R. Fan, Y. Wang
and Z. Fan 243 (2005) 232

Wear

- Microstructure and wear properties of laser clad
TiCo/Ti₂Co intermetallic coatings on tita-
nium alloy, Y. Xue and H.M. Wang 243 (2005) 278

White emission

- Enhancement of electrophoretic emission by using
multi-layer device structure, Y.-M. Wang, F.
Teng, Z. Xu, Y.-B. Hou, Y.-S. Wang and
X.-R. Xu 243 (2005) 355

XPS

- Characterisation of nanosize thin films of elec-
trografted *N*-vinylcarbazole copolymers
(P[NVCz-co-VBSA] and P[NVCz-co-3-
MeTh]) onto carbon fibre. AFM, XPS,
and Raman spectroscopy, A.S. Sarac, M.
Serantoni, S.A.M. Tofail, J. Henry, V. Cun-
nane and J.B. McMonagle 243 (2005) 183
- Surface and electrical-transport studies of Ag/
Al bilayer-structures grown by molecular
beam epitaxy, A.K. Debnath, N. Joshi, K.P.
Muthe, J.C. Vyas, D.K. Aswal, S.K. Gupta
and J.V. Yakhmi 243 (2005) 220
- Radiation and storage-induced ageing of poly-
pyrrole doped with dodecylbenzene sulfo-
nic acid, P. Kappen, N. Brack, P.S. Hale, W.
Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

X-ray diffraction

- Structural modifications of carbon-carbon
composites under high temperature and
ion irradiation, T. Paulmier, M. Balat-
Pichelin and D. Le Quéau 243 (2005) 376

X-ray mask

- Electron beam induced chemical modification
of amorphous chalcogenide-metal bilayers
and its application, R.K. Debnath, N. Nus-
bar and A.G. Fitzgerald 243 (2005) 228

X-ray photoelectron spectroscopy

- Chromophore binding to in vitro engineered
bio-mimetic surfaces, J.M. Kinsella and A.
Ivanisevic 243 (2005) 7

X-ray photoelectron spectroscopy (XPS)

- Annealing and deposition effects of the chemi-
cal composition of silicon-rich nitride, K.N.
Andersen, W.E. Svendsen, T. Stimpel-Lind-
ner, T. Sulima and H. Baumgärtner 243 (2005) 401

X-rays

- Radiation and storage-induced ageing of poly-
pyrrole doped with dodecylbenzene sulfo-
nic acid, P. Kappen, N. Brack, P.S. Hale, W.
Prissanaroon, E. Welter and P.J. Pigram 243 (2005) 287

XRD

- Growth of thick AlGa_N by mixed-source
hydride vapor phase epitaxy, H.S. Ahn,
K.H. Kim, M. Yang, J.Y. Yi, H.J. Lee,
C.R. Cho, H.K. Cho, S.W. Kim, T. Narita,
Y. Honda, M. Yamaguchi and N. Sawaki 243 (2005) 178

Zirconium

- Activation of binary Zr-V non-evaporable get-
ters: synchrotron radiation photoemission
study, V. Matolín, V. Dudr, S. Fabík, V.
Cháb, K. Mašek, I. Matolínová, K.C.
Prince, T. Skála, F. Šutara, N. Tsud and
K. Veltruská 243 (2005) 106

Effects of adhesion layer (Ti or Zr) and Pt deposition temperature on the properties of PZT thin films deposited by RF magnetron sputtering, C.C. Mardare, E. Joanni, A.I. Mardare, J.R.A. Fernandes, C.P.M. de Sá and P.B. Tavares

243 (2005) 113

ZnO thin film

Growth and characteristics of ZnO thin film on CaF_2 (11-21) substrate by metalorganic vapor phase epitaxy, Y. Ma, G. Du, X. Wang, W. Li, J. Yin, D. Qiu, B. Song, X. Zhang, Y. Zhang and D. Liu

243 (2005) 24